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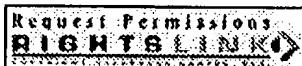
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## A collaborative engineering environment for 21st century avionics

McQuay, W.K.

Res. Lab., Wright-Patterson AFB, OH, USA;

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### Abstract:

Collaborative engineering and virtual prototyping is the application of advanced distributed modeling and simulation and engineering tools in an integrated environment to support technology development, system design, performance, cost, and trade-off analyses throughout the entire product and system engineering life cycle. Sensors and Information Directorates, Air Force Research Laboratory (AFRL) initiated a major effort to implement a Collaborative Engineering Environment provide the infrastructure and development methodology required for affordable timely avionics for the 21st century warfighter. The CEE concept is a major change in the technology development process that involves applying state-of-the-art simulation and information sharing technology to the way we do business. CEE partnerships among the laboratories, industry, and the warfighter to accelerate development and transition of leading edge technology to the operational weapon systems

### Index Terms:

[CAD](#) [aerospace computing](#) [digital simulation](#) [distributed processing](#) [military avionics](#) [21st century avionics](#) [21st century warfighter](#) [Air Force Research Laboratory](#) [advanced engineering tools](#) [advanced distributed modeling tools](#) [advanced distributed simulation](#) [collaborative engineering environment](#) [information sharing technology](#) [integrated environment](#) [operational weapon systems](#) [system design](#) [technology development](#) [virtual prototyping](#)

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**INSPEC - 1969 to date (INZZ)**

**Accession number & update**

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**Title**

Model-based architecture for the Intranet.

**Author(s)**

[Hara-H](#); [Matsutsuka-T](#); [Kanaya-N](#); [Ookubo-T](#); [Uehara-S](#).

**Author affiliation**

Software Lab, Fujitsu Labs Ltd, Kawasaki, Japan.

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**Publication type**

CPP Conference Paper.

**Treatment codes**

P Practical.

**Abstract**

We propose a system called **CEE** (Cooperative Environment for Enterprise-computing) which is based on a new architecture for the Intranet. **CEE** works based on the enterprise model which consists of the organization, business function/process conforming to IDEFO, and resources such as persons and documents. **CEE** integrates enterprise information and applications based on the enterprise model and enable the following functions on the WWW. 1) **CEE** automatically generates and maintains WWW pages and links according to business objects in the enterprise model. 2) **CEE** manages documents linked to the enterprise model and provides check-in/out and version control functions. 3) **CEE** promotes concurrent engineering by providing notification on the creation or modification of the output

document of a process to the succeeding processes. 4) CEE provides document-based project management on the IDEFO chart in addition to traditional time-based project management on the Gantt chart. (9 refs).

**Descriptors**

business-communication; business-data-processing; client-server-systems; concurrent-engineering; Internet; local-area-networks; management-information-systems; network-operating-systems.

**Keywords**

model based architecture; Intranet; CEE; Cooperative Environment for Enterprise computing; enterprise model; business function; IDEFO; enterprise information; WWW; WWW pages; business objects; version control; concurrent engineering; document based project management; Gantt chart.

**Classification codes**

C7100 (Business and administration).

C6150N (Distributed systems software).

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## Model-based architecture for the Intranet

Hara, H. Matsutsuka, T. Kanaya, N. Ookubo, T. Uehara, S.

Software Lab., Fujitsu Labs. Ltd., Kawasaki, Japan;

 This paper appears in: **Computer Software and Applications Conference, COMPSAC '97. Proceedings., The Twenty-First Annual International**

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Number of Pages: xxi+688

Inspec Accession Number: 5691916

### Abstract:

We propose a system called CEE (Cooperative Environment for Enterprise-computing) which is based on a new architecture for the Intranet. CEE works based on the model which consists of the organization, business function/process conforming to IDEFO, and resources such as persons and documents. CEE integrates enterprise information and applications based on the enterprise model and enable the following functions on the WWW. 1) CEE automatically generates and maintains WWW links according to business objects in the enterprise model. 2) CEE manages links linked to the enterprise model and provides check-in/out and version control. 3) CEE promotes concurrent engineering by providing notification on the creation/modification of the output document of a process to the succeeding processes. CEE provides document-based project management on the IDEFO chart in addition to traditional time-based project management on the Gantt chart.

### Index Terms:

Internet business communication business data processing client-server systems concurrent engineering local area networks management information systems network operating systems CEE Cooperative Environment for Enterprise-computing Gantt chart IDEFO Intranet WWW pages business function business objects concurrent engineering document management project management enterprise information enterprise model model-based architecture control

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